

Title (en)

METHOD FOR PRODUCING TRANSFORMED CELLS OF CORN OR CORN PLANT, NUCLEIC ACID CONSTRUCT, AND METHOD FOR INTRODUCING NUCLEIC ACID TO CELLS OR CORN PLANT

Title (de)

VERFAHREN ZUR HERSTELLUNG TRANSFORMierter ZELLEN DER MAIS- ODER MAISPFLANZE, NUKLEINSÄUREKONSTRUKT UND VERFAHREN ZUR EINFÜHRUNG VON NUKLEINSÄURE IN ZELLEN ODER MAISPFLANZEN

Title (fr)

PROCÉDÉ DE PRODUCTION DE CELLULES TRANSFORMÉES DE MAÏS OU DE PLANT DE MAÏS, CONSTRUCTION D'ACIDE NUCLÉIQUE, ET PROCÉDÉ D'INTRODUCTION D'ACIDE NUCLÉIQUE DANS DES CELLULES DE MAÏS OU DE PLANT DE MAÏS

Publication

EP 4268583 A1 20231101 (EN)

Application

EP 21915286 A 20211227

Priority

- JP 2020218249 A 20201228
- JP 2021206911 A 20211221
- JP 2021048621 W 20211227

Abstract (en)

The present invention relates to a method of producing a transformed cell or plant body of maize. The present invention also relates to a method of introducing a nucleic acid into a cell or plant body of maize. The present invention also relates to a nucleic acid construct. The method of producing a transformed cell or plant body of maize of the present invention includes overexpressing, in maize, 1) a nucleic acid encoding an amino acid sequence of SEQ ID NO: 2, or a nucleic acid encoding a polypeptide including an amino acid sequence having at least 95% sequence identity with the amino acid sequence of SEQ ID NO: 2, the polypeptide having a function of promoting cell division of maize, or 2) a nucleic acid encoding an amino acid sequence of SEQ ID NO: 15, or a nucleic acid encoding a polypeptide including an amino acid sequence having at least 95% sequence identity with the amino acid sequence of SEQ ID NO: 15, the polypeptide having a function of promoting cell division of maize.

IPC 8 full level

A01H 5/00 (2018.01); **A01H 1/00** (2006.01); **A01H 4/00** (2006.01); **A01H 6/46** (2018.01); **C12N 5/10** (2006.01); **C12N 15/29** (2006.01); **C12N 15/82** (2006.01)

CPC (source: EP US)

C07K 14/415 (2013.01 - EP US); **C12N 5/10** (2013.01 - US); **C12N 15/8201** (2013.01 - EP); **C12N 15/8203** (2013.01 - US); **C12N 15/8262** (2013.01 - EP); **C12N 15/8267** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4268583 A1 20231101; US 2024052358 A1 20240215; WO 2022145427 A1 20220707

DOCDB simple family (application)

EP 21915286 A 20211227; JP 2021048621 W 20211227; US 202118259319 A 20211227